

Receiving Report

Date: 12/11/16

Batch No: 1123721

Supplier: McNAMP COOLIE

Dart P/O: 18350

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection: 14 12/11/16 N/A ☒
 Work Order: 14 12/11/16 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M606/T6	RO.750	36	0	0	36	
D6101-005P		20	0	0	20	

Initials of receiver (if shipment OK) Level 12

Production/Admin: 12/11/16
 Date: 12/11/16
 Received/Costing: 12/11/16
 Initial: 12/11/16

Location _____

Purchase Order Receipt Listing

Friday, November 16, 2012 10:41:55 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18350 Receipt Dates from 11/16/2012 to 11/16/2012 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-MET001 Metaux Castle											
PO18350	2		M304RO.750	f	11/15/2012	11/16/2012	60.0000	\$4.42	0.0000	0	\$265.47
CAD	No		304 SS Roundbar .750	f	60.0000	DESJ02		\$265.47	0.0000	0	
			123721								
	3		M303R0.500	f	11/15/2012	11/16/2012	48.0000	\$2.09	0.0000	0	\$100.42
	No		303 Round Bar 0.500"	f	48.0000	DESJ02		\$100.42	0.0000	0	
			123721								
	4		M304B0.500X2.500	f	11/15/2012	11/16/2012	26.0000	\$15.61	0.0000	0	\$405.75
	No		304 BAR .500 x 2.50	f	24.0000	DESJ02		\$405.75	0.0000	0	
			123721								
	5		M304B0.625X3.000	f	11/15/2012	11/16/2012	12.9167	\$25.88	0.0000	0	\$334.23
	No		304 BAR .625 X 3.00	f	12.0000	DESJ02		\$334.23	0.0000	0	
			123721								

Total Received Quantity: 146.9167
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$1,105.86
Total Balance Due Quantity: 0.0000



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1541462

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 14-NOV-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1541462-2			

Shipment Details	Final Destination Branch - MON
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Order No 2527499	Line No 6	Item No 5054	Description 0.6250.3.0000.FLAT.304.STAINLESS.HR.ANN.PICKLE.132.0000-156 .0000 SPECIFICATIONS: ASTM A276			
Purchase Order No 18350	Part Number		Ordered Qty 12.00 FT	Invoice Qty 12.9167 FT		
Details						
Delivery No. 118144025	Mill 10-A.M. CASTLE & CO.	Heat Number 245178	Mech Id	PCS 1	Width (IN)	Shipped Qty(LBS) 82.3438

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 36100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / customer/vertragspartner
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Hersteller produkte

Oggetto Prove: Descaled Annealed Hotrolled
Prüfunggegenstand inspected/Prüfung



Avviso di Spedizione: D-VI07018231
Lieferanten/Packing Invoice

Ordine nr: 20462 STOCK CAROL S.
Bestell-Nr order/Bestellung

Tipo di Elaborazione: E-AOD
Herstellungsbearbeitung process/Herstellung

CERTIFICATO DI COLLAUDO ABNAHMEPRÜFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

Certificato nr: MEST505393/2007/
Prüfung/Prüfung

Conferma ordine nr: E07008378
Werte/Order official nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Signe du Fournisseur

Funzione del Collaudatore:
Geprüft der Werkstofftechnische
Inspector's Auftrag/Prüfung des Inspektor



Specifiche:
Anforderungen / Requirements / Eidgenosse

FIRST METALS 2003 304/304L A
AMS-QQ-S-763 B 304/304L
ASME SA320 2004 B8 z
ASTM A193 2006A B8
ASTM A314 97 S30400/03
ASTM A479 2001 S30400/03 z
NACE MR0175 2003 S30400/03 A z
(0) SEC.II PT.A 2004 EDITION ADD.2006
(1) SEC.II PT.A 2004 EDITION ADD.2006
(2) SEC.II PT.A 2004 EDITION ADD.2006
(3) Chemical analysis only.

AMS 5659 H S30400
ASME SA182 2004 S30400/03 z
ASME SA479 2004 S30400/03 z
ASTM A262 2002A PRACTICE E
ASTM A320 2006A B8
ASTM A479 2006 S30400/03
QQ-S-763 F 304/304L

0Chemical analysis only.
2SEC.II PT.A 2004 EDITION ADD.2006
4Chemical analysis only.
8 ISO 15156-3

AMS 5647 H S30403
ASME SA182 2004 B8 (1)
ASTM A182 2006 S30400/03 (1)
ASTM A279 2006 S30400/03
ASTM A370 2008
MIL-S-662 B/1 304/304L

Qualità: T-304L
Werkstoff/Qualitätsklasse

Marca: AISI
Werkstoffherstellung/Hersteller

Funzionatura: T-304L
Kornstruktur/Graingröße

Pos. nr. Part. nr. Nr. de pièce	Oggetto Material Désign. du produit	Dimensioni - in Abmessungen Dimension	Tolleranza Tolérance Tolerance	Lunghezza - Ft Länge Longueur	Colata Schmelze Désign.	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Lose Lot nr.
0250	Fiat	3,0000 x 0,6250	484-05A	12 / 13	245178		5,487	707600230

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind in Anlage erfüllt
Tous matériaux ont été livrés en conformité avec les requêtes
La matière a été livrée conforme aux exigences

Controllo antisensibilizzazione: OK
Vorsensibilisierungsschutz geprüft/analytisch durchgeführt
Antisensibilizing testing performed OK
Controlle antisensibilisation: OK

Controllo visivo e dimensionale: soddisfatte le esigenze
Einsichtprüfung und Abmessung ohne Beanstandung
Visual inspection and dimensional check/satisfactory
Controlle visuel et dimensionnel satisfaisant

TEST	Prova/Probe Mechanical Eigenschaften Lapour Propriétés Mécaniques Essai Essai	°F	Peso Gewicht Poids	Sneramento Verformung Verformung Fp 0,2% K.S.J.	Sneramento Verformung Verformung Fp 0,2% K.S.J.	Resistenza Zugfestigkeit Zugfestigkeit Rm K.S.J.	Alungamento Bruchdehnung Bruchdehnung E 4d %	Strizione Bruchdehnung Bruchdehnung RA %	Resistenza Zugfestigkeit Zugfestigkeit Rm K.S.J.	Durezza Härte Härte HB
	Valori richiesti Anforderungen Anforderungen Valeur requises	min max		30	-	75 115	- 40	- 50	-	140 223
A	12,5	68 L	46	-	90	-	60	68	-	177

Grain size for ASTM E112

5

1) Lunghezza/Graingröße, 2) Sensibilizzazione/Grain, 3) Temperatura/Grain

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Opere Schmelze/Grade	min. max.	0,030	1,00	2,00	16,00 20,00	1,00	1,00	8,00 12,00	0,040	0,060 0,080	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	-	-	-	-
245178	0,024	0,53	1,66	18,17	0,51	0,45	8,20	0,130	0,031	0,027	0,086	-	-	-	-

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1880°F for 1 h/H2O.

Micro and macro etch test: OK

Reduction ratio > 4 : 1

Intergranular corrosion test per ASTM A262 pract. E: ok.

Material is OFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, 4.3 by TÜV and LLOYD'S

CASTLE METALS CORP.
DATE RCVD 7-23-09
IAC 5051
APPROVED BY [Signature]

Vicenza, 13/06/07

W02012
0400, MOEN

Il collaudatore di stabilimento / der Werkstoffverständiger / Works Inspector / L'agent d'usine

M. Pizzotti [Signature]

Pagina - 1 di 1



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 1541462

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUÉBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 14-NOV-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1541462-2			

Shipment Details	Final Destination Branch - MON
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Order No 2527499	Line No 5	Item No 5036	Description 0.5000.2.5000.FLAT.304.STAINLESS.HR.ANN.PICKLE.132.0000-156 .0000 SPECIFICATIONS: ASTM A276			
Purchase Order No 18350	Part Number		Ordered Qty 24.00 FT	Invoice Qty 26.0000 FT		
Details						
Delivery No. 118144045	Mill VALBRUNA CORPORATION	Heat Number 249941	Mech Id	PCS 2	Width (IN)	Length (IN) 156.0000
					Shipped Qty(LBS) 110.5000	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-USA

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Usine productrice

Oggetto Prove: Descaled Annealed Hotrolled
Prüfgegenstand/Item inspected/Finissage

Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 304/304L A
AMS-QQ-S-763 B 304/304L A
ASME SA276 2007 S30400/03 A 2
ASTM A182 2009A S30400/03 A 5
ASTM A276 2008A S30400/03 A
ASTM A370 2009A
MIL-S-862 B/1 304/304L
(0) SEC.II P.T.A 2007 EDITION ADD. 2009b
(1) SEC.II P.T.A 2007 EDITION ADD. 2009b
(3) SEC.II P.T.A 2007 EDITION ADD. 2009b
(5) Chemical analysis only and mechanical properties.
(7) * ISO 15156-3

Qualità: 304/304L
Werkstoff/Grade/Nuance

Marca: AISI
Markenbezeichnung/Brand/Nuance

Avviso di Spedizione: D-VI10009793
Lieferanzeige/Packing list/B.L.

Ordine nr: 26835 STOCK CAROL STR
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Certificato nr: MEST856090/2010/
Prüfung/Test/Essai

Conferma ordine nr: EH10002778
Werkz./Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poligon de l'assesseur



54284 - 1 5036

AMS 5639 H S30400 A
ASME SA182 2007 S30400/03 A 0
ASME SA320 2007 B8 CLASS1 3
ASTM A193 2009 B8 CLASS1
ASTM A314 2008 S30400/03
ASTM A473 2001 S30400/03 6
NACE MR0175* 2003 S30400/03 A 7

0Chemical analysis only and mechanical properties.
2SEC.II P.T.A 2007 EDITION ADD. 2009b
4SEC.II P.T.A 2007 EDITION ADD. 2009b
6Chemical analysis only.

AMS 5647 H S30403 A
ASME SA193 2007 B8 CLASS1 (1)
ASME SA479 2007 S30400/03 A (4)
ASTM A262 2002A PRACTICE E
ASTM A320 2008 B8 CLASS1
ASTM A479 2009 S30400/03 A
QQ-S-763 F 304/304L A

Punzonatura: 304/304L
Kennzeichnung/Marking/Marque

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0020	Flat	2,5000 x 0,5000	484-08	144 / 159	249941		2.683	933800410

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind k. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verrechnungsprüfung: specialanalyse durchgeföhrt
Antimixing testing performed: OK
Contrôle antimélange (cf. r.a.s.)

Controllo visivo e dimensionale: soddisfa le esigenze:
Besichtigung und Abmessung: ohne Beanstandung
Visual inspection and dimensional check:satisfactory
Contrôle visuel et dimension: satisfaisant

TEST ALLO STATO DI FORNITURA											
Test on delivery condition			Prüfung auf lieferbarem produkt			test a l'état de fourniture			Prueba sobre el material así como entregado		
TEST	Provetta/Probestab Specimen/Eprobestab Leng./diam./Besse. Diam./Diam. Thickn. Leng./diam. spale mm	° F	Poelz. Saggio Probestab Leng./diam. mm 1)	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite elastique	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.i.	Allungamento Biegeformung Elongation Allongement E 4d %	Strizione Biegeformung Reduction of area Striction RA %	Resistenza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB	
Valori richiesti i Anforderungen/Required values Valeurs demandées		min max		30	-	75 115	- 40	- 50	-	140 235	
A	12,5	68	L	56		92	54	64		183	

TEST	min	max
A Grain size for ASTM E112		5

Mechanical properties according to ASTM A370.

1) L=longitudinale/länge, T=transversale/quer, Q=Tangenziale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	-	0,040	0,020 0,030	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
249941	0,019	0,48	1,93	18,10	0,49	0,37	8,24	0,140	0,033	0,028	0,082				

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 0.5 h/water.
Micro and macro etch test: OK

Vicenza, 01/04/10
VCO008
(Mod. MCER)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-USA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Usine productrice

Oggetto Prova: Descaled Annealed Hotrolled
Prüfgegenstand/Item inspected/Finissage

Intergranular corrosion test per ASTM A262 pract. E: ok.
Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, § 4.3 by TÜV and LLOYD'S

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Avviso di Spedizione: D-VI10009793
Lieferanzettel/Packing list/V.L.

Ordine nr: 26835 STOCK CAROL STR
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungs-/Melting process/Mode of elaboration

Certificato nr: MEST856090/2010/
Prüfung/Test/Essai

Conferma ordine nr: EI10002778
Werkz/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur



DAS
14
9-89 *OK 2/1/16*

Castle Metals FP

HEAT NUMBER 249941
MECHANICAL ID _____
ITEM CODE 5036
LOT NUMBER _____
PO NUMBER 54284
RECEIPT DATE 1/6/11
SUPPLIER Valbruna
SPECIFICATION _____
LCS N
COMMENT _____
APPROVED *[Signature]*

Vicenza, 01/04/10

VCQ008
(Mod. MCER)

Il collaudatore di stabilimento / der Werkssachverständiger / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 2



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1541462

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 14-NOV-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1541462-2			

Shipment Details		Final Destination Branch - MON	
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Order No 2527499	Line No 4	Item No 14154	Description 0.5000.RD.303.STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A582
Purchase Order No 18350	Part Number	Ordered Qty 48.00 FT	Invoice Qty 48.0000 FT

Details		Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
Delivery No. 118139949	Mill NORTH AMERICAN STAINLESS	Heat Number D3J8	4		144.0000	32.0640

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material out to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

14
11/16

14/11/16



NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 768423 10 Mail To:

A.M. CASTLE AND COMPANY
1420 KENSINGTON ROAD-SUITE 220
OAK BROOK IL 60523

Ship To:

A.M. CASTLE AND COMPANY
1625 TILLIE LEWIS DRIVE
STOCKTON CA 95206

Date: 9/10/2012 Page: 1 of 1

Steel: 303

Finish: Cold Draw

Dia/Thk: .5000 in

Leg length:

Length: 144.00 in

Corrosion:

Customer: 0032 014

NAS Order: LN 87110 5

Your Order: 183305

Item Code: 14154

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw

ASTM A582/05 EN 10204 3.1, ASTM A484/11

AMS 5640U TYPE 1, QQ8-764B CONDITION A

SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7014A-1 EU DIRECTIVE
2002.95.EC.ROHS. HAF+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BE86822	1884								

CHEMICAL ANALYSIS

CM(Country of Melt)

ES(Spain)

US(United States)

ZA(South Africa)

JP(Japan)

Chemical Analysis per ASTM A751/08

Heat Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
D3J8	US	.045	.07	17.38	.26	1.82	.34	.045	8.47	.031	.3435
		SI %									

MECHANICAL PROPERTIES

Id	HB	.2YS	UTS	RA	Elong
o i	No.	KSI	KSI	%	% 2"
BE86822	RL	192.0	85.93	108.71	31.64
					36.10

12/11/16
10-14-16
10-14-16

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

ERIC HESS



12/14/16

Castle Metals FP

HEAT NUMBER D3J8
MECHANICAL ID _____
ITEM CODE 14154
LOT NUMBER _____
PO NUMBER 183305
RECEIPT DATE 9-11-12
SUPPLIER NAS
SPECIFICATION _____
LCS NO
COMMENT _____
APPROVED BL



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1541462

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 14-NOV-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1541462-2			

Shipment Details		Final Destination Branch - MON	
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Order No 2527499	Line No 3	Item No 14824	Description 0.7500.RD.304/304L STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A276	
Purchase Order No 18350	Part Number		Ordered Qty 60.00 FT	Invoice Qty 60.0000 FT
Details				
Delivery No. 118139949	Mill NORTH AMERICAN STAINLESS	Heat Number C5R5	Mech Id 5	PCS
		Width (IN)	Length (IN) 144.0000	Shipped Qty(LBS) 90.0000

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	
Date:	Name:

12/11/14

Castle Metals FP

HEAT NUMBER C5 P5
MECHANICAL ID _____
ITEM CODE 14824
LOT NUMBER _____
PO NUMBER 162470
RECEIPT DATE 5-16-12
SUPPLIER NAS
SPECIFICATION _____
LCS 120
COMMENT _____
APPROVED DT



NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 736684 02 Mail To:

A.M. CASTLE AND COMPANY
1420 KENSINGTON ROAD-SUITE 220
OAK BROOK IL 60523

Customer: 0032 001

NAS Order: LN 82572 1

Your Order: 162470

Ship To:

A.M. CASTLE AND COMPANY
3400 NORTH WOLF ROAD
FRANKLIN PARK IL 60131

Date: 5/13/2012 Page: 1 Of 1

Steel: 304/304L

Finish: Cold Draw

Dia/Thk: .7500 in

Leg Length:

Length: 144.00 in

Corrosion: ASTM A262 Prac A/E OK

Item Code: 14824

PRODUCT DESCRIPTION:

ASTM A193/10a-ASME SA193/10 CL 1 GR B8
GRAIN SIZE= 4-6

Round Bar, Annealed, Cold Draw

UNS 30400/30403 EN 10204 3.1, ASTM A484/10

ASTM A276/10, ASTM A479/10a, ASTM A182/10 CHEM ONLY,

ASME SA479/10a, ASME SA182/10 CHEM ONLY

AMS 5639H, AMS 5647J, AMS QQS-763B, QQS-763F

SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DEARS EU DIRECTIVE 2002.95.
EC. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA

FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BE61784	2496								

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Heat	Supplier #	CM	C	CO	CR	CU	MN	MO	N	NI	P	S
C5R5	US		.019	.15	18.66	.43	1.40	.38	.080	8.57	.033	.0255
		SI										
			.23									

MECHANICAL PROPERTIES

1 d	HB	.2YS	UTS	RA	Elong
o i	No.	KSI	KSI	%	% 4D
G X					
BE61784	R L	208.0	75.11	99.73	70.74
					41.31

140
2/1/16

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC HESS

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO18350**

Purchase Order Date 11/07/12

PO Print Date 11/07/12

Page Number 1 of 3

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA**Contact Name****Vendor Phone** 514 694 9575**Vendor Fax** 514 695 3281**Vendor Account Nbr****Buyer**

Chantal Lavoie

Requisition Nbr**Tax Resale Nbr**

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA**FAXED**
613 632 1053

M123721

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6R0.750 013	6061-T6 Round Bar .750"	11/15/12 Yes	36.00 f	Yours ppd	\$2.1600	\$77.76
		Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/ 4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					
2	M304R0.750 028	304 SS Roundbar .750	11/15/12 Yes	60.00 f	Yours ppd	\$4.4200	\$265.20
		Special Inst: MATERIAL: MATERIAL: 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE					
3	M303R0.500 028	303 Round Bar 0.500"	11/15/12 Yes	48.00 f	Yours ppd	\$2.0900	\$100.32

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

No substitution or deviation without consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 1

Change Date: 11/07/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18350**

Purchase Order Date 11/07/12

PO Print Date 11/07/12

Page Number 2 of 3

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst: MATERIAL: AISI 303 SS ROUND BAR AS
PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

4	M304B0.500X2.500	304 BAR .500 x 2.500	11/15/12 Yes	24.00	Yours ppd	\$15.5900	\$374.16
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Special Inst: AISI 304/316 SS BAR OR AISI 304/316 SS
PLATE
AS PER ASTM A276 OR ASTM A240
(NOTE: AISI 303 NOT ACCEPTABLE)

5	M304B0.625X3.000	304 BAR .625 X 3.000	11/15/12 Yes	12.00	Yours ppd	\$25.8500	\$310.20
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Special Inst: AISI 304/316 SS BAR OR AISI 304/316 SS
PLATE
AS PER ASTM A276 OR ASTM A240
(NOTE: AISI 303 NOT ACCEPTABLE)

6	D6101-005P	7075-T7351 8.25X5.0X2.5	11/19/12 Yes	20.00	Yours ppd Each	\$57.9500	\$1,159.00
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MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 1

Change Date: 11/07/12

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO18350**

Purchase Order Date 11/07/12

PO Print Date 11/07/12

Page Number 3 of 3

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA**Contact Name****Vendor Phone** 514 694 9575**Vendor Fax** 514 695 3281**Vendor Account Nbr****Buyer**

Chantal Lavoie

Requisition Nbr**Tax Resale Nbr**

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:AS PER DWG D6101 REV. B
B92660
MATERIAL: 7075-T7351 AS PER QQ-A-
250/12
SIZE: 5.00" X 8.250" X 2.50" THICK
GRAIN DIRECTION ALONG 5.00"
LENGTH
TOLERANCE ON ALL DIMENSION ARE
+0.030"/-0.000"**PO Total:****\$2,286.64**MATERIAL CERTIFICATION
REQ'D UPON DELIVERYNo substitution or deviation without
consent.Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 1

Change Date: 11/07/12